

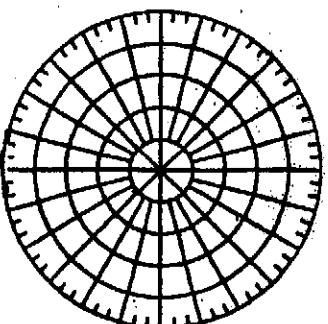
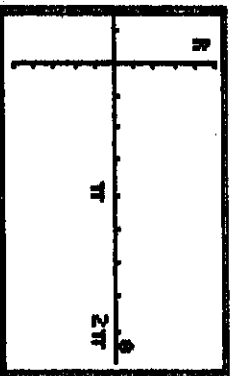
Graphs of Polar Equations

For each polar equation,

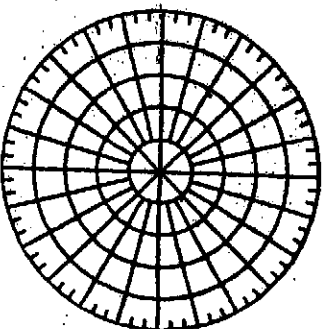
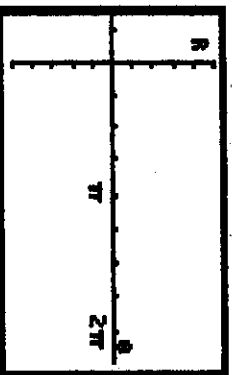
- Sketch the graph of r as a function of θ in rectangular coordinates.
- Use this graph to sketch the corresponding polar curve.
- Check your graph by sketching the curve on your calculator.

Examples:

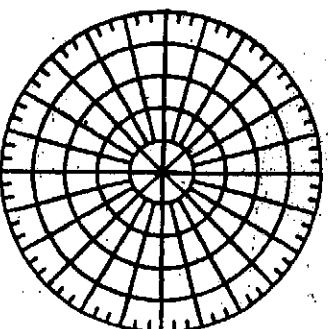
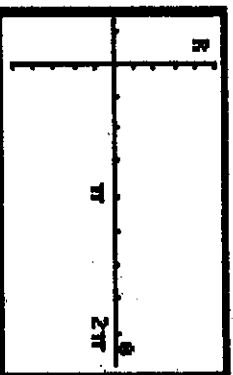
1. $r = -4 \cos \theta$



2. $r = 1 + 3 \sin \theta$

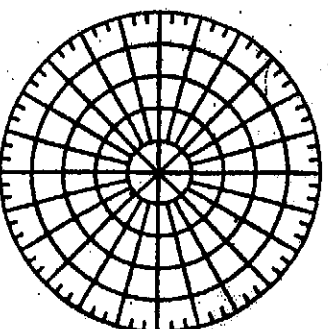
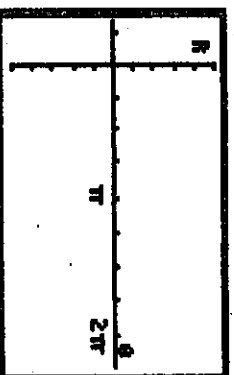


3. $r = 5 \cos 2\theta$

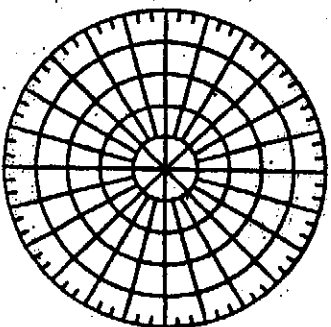
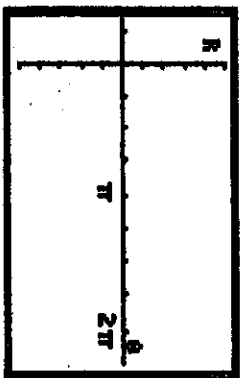


Problems:

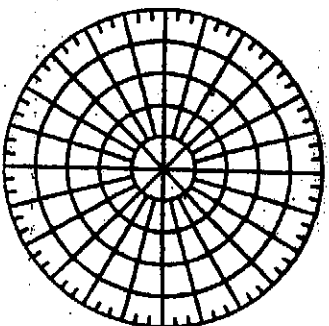
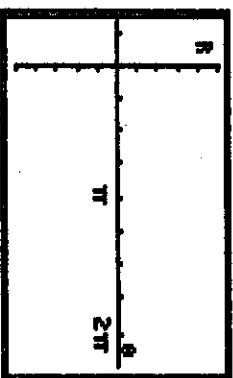
4. $r = 3 \sin \theta$



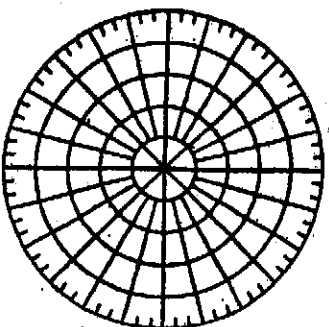
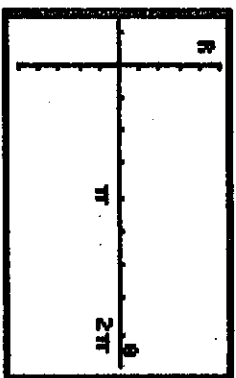
5. $r = 2 + 2 \cos \theta$



6. $r = 1 - 3 \cos \theta$



7. $r = -4 \sin 2\theta$



8. $r = 5 \cos 3\theta$

